

We claim:

1. A device for electrically connecting electrical members or user devices positioned on a door of a household electrical appliance, particularly a refrigerator, the refrigerator having an insulated cabinet defining at least one food preservation compartment on which said door is movably positioned, at least one hinge member being provided for the connection between the cabinet and said door; said device comprising, associated with the cabinet and with the door, electrical conductors connected respectively to an electrical source and to each user device positioned on the door, said conductors being electrically connected together via the hinge member, which is constructed such that at least a part of it is electrically conductive.

2. A device as claimed in claim 1, characterised in that each conductor present in the cabinet or in the door of the refrigerator cooperates with a corresponding electrically conductive element fixed to said cabinet and door with which the hinge member cooperates.

3. A device as claimed in claim 2, characterised in that each conductive element is at least one screw or similar fixing device which fixes the hinge member to the cabinet or to the door.

4. A device as claimed in claim 2, characterised in that each conductive element is a reinforcement element in direct contact with at least one electrically conductive screw, for example of metal, which fixes the hinge member to the cabinet or to the door.

5. A device as claimed in claim 2, characterised in that each conductive element is electrically insulated from the cabinet or from the door.
6. A device as claimed in claim 5, characterised in that a bushing of insulating material is present between the screw and the cabinet or door.
7. A device as claimed in claim 1, characterised in that at least the electrically conductive part of the hinge is electrically insulated from the cabinet and from the door.
8. A device as claimed in claim 7, further comprising a member of electrically insulating material positioned between the hinge and the cabinet or the door of the refrigerator.
9. A device as claimed in claim 4, further comprising a member of electrically insulating material interposed between the reinforcement element and the cabinet or the door.
10. A device as claimed in claim 1, characterised in that the conductors are embedded in the insulating material of the cabinet or of the door.

11. A device as claimed in claim 1, characterised in that the hinge is of the type comprising bases secured to the cabinet and to the door and at least two portions movable relative to each other.